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PATENT  
Docket No. 5634.361

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: John C. Harvey and James W.  
Cuddihy

Serial No.: 08/486,258

Filing Date: June 7, 1995

For: Signal Processing Apparatus and  
Methods

Group Art Unit: 2602

Examiner:

Assistant Commissioner of Patents  
Washington D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

| <u>Serial No.</u> | <u>Filing Date</u> | <u>Patent No.</u> |
|-------------------|--------------------|-------------------|
| 08/113,329        | August 30, 1993    | Pending           |
| 08/056,501        | May 3, 1993        | 5,335,277         |
| 07/849,226        | March 10, 1992     | 5,233,654         |
| 07/588,126        | September 25, 1990 | 5,109,414         |
| 07/096,096        | September 11, 1987 | 4,965,825         |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /BL/

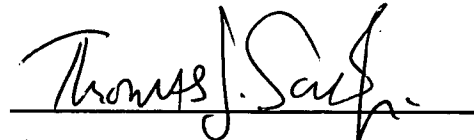
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Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the cases cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725 and/or U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490. Therefore, no copies of the listed references are provided herewith. It is respectfully requested that the information above be expressly considered during the prosecution of this Application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

**CERTIFICATION AND/OR FEE**

Since this IDS is being filed pursuant to 37 C.F.R § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office Action on the merits, no certification or fee is required.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Thomas J. Scott, Jr.", written over a horizontal line.

Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 22, 1995

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|---|---|--------------------------|
| <b>PTO 1449</b><br><b>INFORMATION DISCLOSURE</b><br><b>STATEMENT BY APPLICANT</b><br><br><b>Title: Signal Processing Apparatus</b><br><b>and Method</b> | Attorney Docket No.<br>5634.361                   | Serial No.<br>08/486,258 |
|   | Applicants<br>John C. Harvey and James W. Cuddihy |                          |
|   | Filing Date:<br>June 7, 1995                      | Group:<br>2602           |

## U.S. Patent Documents

| EXAMINER<br>INITIAL | PATENT<br>NUMBER | PATENT<br>DATE | NAME            | CLASS/<br>SUBCLASS | FILING<br>DATE* |
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|                     | 2,511,085        | June 13, 1950  | Smith           | 179/1              |                 |
|                     | 2,573,349        | Oct. 30, 1951  | Miller et al.   | 177/353            |                 |
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|                     | 3,071,642        | Jan. 1, 1963   | Mountjoy et al. | 178/5.1            |                 |
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|                     | 3,601,528        | Aug. 24, 1971  | McVoy           | 178/5.1            |                 |
|                     | 3,609,697        | Sept. 28, 1971 | Blevins et al.  | 340/172.5          |                 |
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| EXAMINER  | /Brian Le/ | DATE CONSIDERED | 09/02/2010 |
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|  |   |                                 |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><b>Title: Signal Processing Apparatus<br/>and Method</b> | <b>Attorney Docket No.</b><br>5634.361                          | <b>Serial No.</b><br>08/486,258 |
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|  | <b>Filing Date:</b><br>June 7, 1995                             | <b>Group:</b><br>2602           |

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|                     | 3,659,046        | Apr. 25, 1972  | Angeleri et al. | 178/22             |                 |
|                     | 3,668,307        | June 6, 1972   | Face et al.     | 178/5.6            |                 |
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|                     | 3,703,684        | Nov. 21 1972   | McVoy           | 325/31             |                 |
|                     | 3,725,672        | Apr. 3, 1973   | Reuter          | 307/208            |                 |
|                     | 3,729,581        | Apr. 24, 1973  | Anderson        | 178/6.8            |                 |
|                     | 3,731,197        | May 1, 1973    | Clark           | 325/32             |                 |
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|                     | 3,789,137        | Jan. 29, 1974  | Newell          | 178/6.6            |                 |
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|                     | 3,803,491        | Apr. 9, 1974   | Osborn          | 325/53             |                 |

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|                     | 3,806,814        | Apr. 23, 1974  | Forbes           | 325/309            |                 |
|                     | 3,819,852        | June 25, 1974  | Wolf             | 178/5.6            |                 |
|                     | 3,824,332        | July 16, 1974  | Horowitz         | 178/5.1            |                 |
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|                     | 3,835,387        | Sep. 10, 1974  | Rookes et al.    | 325/55             |                 |
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|                     | 3,885,089        | May 20, 1975   | Callais et al.   | 178/5.1            |                 |
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|                     | 3,891,792        | June 24, 1975  | Kimura           | 178/5.8R           |                 |
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|                     | 3,911,216        | Oct. 7, 1975   | Bartek et al.    | 178/22             |                 |

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|                     | 3,914,534        | Oct. 21, 1975  | Forbes             | 178/5.1            |                 |
|                     | 3,916,091        | Oct. 28, 1975  | Kirk, Jr. et al.   | 178/5.1            |                 |
|                     | 3,919,462        | Nov. 11, 1975  | Hartung et al.     | 178/5.1            |                 |
|                     | 3,921,151        | Nov. 18, 1975  | Guanella           | 340/172.5          |                 |
|                     | 3,924,187        | Dec. 2, 1975   | Dormans            | 325/52             |                 |
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|                     | 3,943,447        | Mar. 9, 1976   | Shomo, III         | 325/308            |                 |
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|                     | 3,949,313        | Apr. 6 1976    | Tamada et al.      | 329/106            |                 |
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|                     | 3,975,583        | Aug. 17, 1976  | Meadows            | 175/5.6            |                 |
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|                     | 3,987,398        | Oct. 19, 1976  | Fung               | 325/309            |                 |
|                     | 3,988,528        | Oct. 26, 1976  | Yanagimachi et al. | 178/5.6            |                 |
|                     | 3,997,718        | Dec. 14, 1976  | Ricketts et al.    | 178/6.8            |                 |
|                     | 4,024,574        | May 17, 1977   | Nieson             | 358/117            |                 |

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|                     | 4,025,851        | May 24, 1977   | Hazelwood et al.   | 325/31             |                 |
|                     | 4,025,947        | May 24, 1977   | Michael            | 358/86             |                 |
|                     | 4,025,948        | May 24, 1977   | Loshin             | 358/122            |                 |
|                     | 4,031,548        | June 21, 1977  | Kato et al.        | 358/188            |                 |
|                     | 4,048,619        | Sept. 13, 1977 | Forman, Jr. et al. | 340/154            |                 |
|                     | 4,049,906        | Sept. 20, 1977 | Hafner et al.      | 178/2C             |                 |
|                     | 4,054,911        | Oct. 18, 1977  | Fletcher et al.    | 358/141            |                 |
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|                     | 4,068,264        | Jan. 10, 1978  | Pires              | 358/122            |                 |
|                     | 4,079,419        | Mar. 14, 1978  | Siegle et al.      | 358/193            |                 |
|                     | 4,081,612        | Mar. 28, 1978  | Hafner             | 179/15BA           |                 |
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|                     | 4,081,831        | Mar. 28, 1978  | Tang et al.        | 358/114            |                 |
|                     | 4,091,417        | May 23, 1978   | Nieson             | 358/117            |                 |
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|                     | 4,112,464        | Sept. 5, 1978  | Gulf et al.        | 358/122            |                 |
|                     | 4,115,662        | Sept. 19, 1978 | Gulnet et al.      | 179/15BV           |                 |
|                     | 4,115,807        | Sept 19, 1978  | Pires              | 358/122            |                 |
|                     | 4,120,030        | Oct. 10, 1978  | Johnstine          | 364/200            |                 |

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|                     | 4,130,833        | Dec. 19, 1978  | Choenet        | 358/122            |                 |
|                     | 4,131,881        | Dec. 26, 1978  | Robinson       | 340/167R           |                 |
|                     | 4,138,726        | Feb. 6, 1979   | Girault et al. | 364/521            |                 |
|                     | 4,160,120        | July 3, 1979   | Barnes et al.  | 178/22             |                 |
|                     | 4,161,751        | July 17, 1979  | Ost            | 358/114            |                 |
|                     | 4,163,254        | July 31, 1979  | Block et al.   | 358/122            |                 |
|                     | 4,163,255        | July 31, 1979  | Pires          | 358/122            |                 |
|                     | 4,168,396        | Sept. 18, 1979 | Best           | 178/22             |                 |
|                     | 4,170,782        | Oct. 9, 1979   | Miller         | 358/84             |                 |
|                     | 4,171,513        | Oct. 16, 1979  | Otey et al.    | 325/32             |                 |
|                     | 4,172,213        | Oct. 23, 1979  | Barnes et al.  | 178/22             |                 |
|                     | 4,186,413        | Jan. 29, 1980  | Mortimer       | 358/146            |                 |
|                     | 4,196,310        | Apr. 1, 1980   | Forman et al.  | 178/22             |                 |
|                     | 4,200,770        | Apr. 29, 1980  | Hellman et al. | 178/22             |                 |
|                     | 4,200,913        | Apr. 29, 1980  | Kuhar et al.   | 364/900            |                 |
|                     | 4,205,343        | May 27, 1980   | Barrett        | 358/147            |                 |
|                     | 4,213,124        | July 15, 1980  | Barda et al.   | 340/706            |                 |
|                     | 4,215,366        | July 29, 1980  | Davidson       | 358/124            |                 |
|                     | 4,215,370        | July 29, 1980  | Kirk, Jr.      | 358/146            |                 |
|                     | 4,225,884        | Sept. 30, 1980 | Block et al.   | 358/122            |                 |

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|---------------------|------------------|----------------|------------------|--------------------|-----------------|
|                     | 4,225,967        | Sep. 30, 1980  | Miwa et al.      | 455/68             |                 |
|                     | 4,230,990        | Oct. 28, 1980  | Lert, Jr et al.  | 455/67             |                 |
|                     | 4,232,193        | Nov. 4, 1980   | Gerard           | 179/1.5R           |                 |
|                     | 4,236,217        | Nov. 25, 1980  | Kennedy          | 364/483            |                 |
|                     | 4,237,484        | Dec. 2, 1980   | Brown et al.     | 358/142            |                 |
|                     | 4,245,245        | Jan. 13, 1981  | Matsumoto et al. | 358/122            |                 |
|                     | 4,247,106        | Jan. 27, 1981  | Jeffers et al.   | 273/85G            |                 |
|                     | 4,250,524        | Feb. 10, 1981  | Tomizawa         | 358/122            |                 |
|                     | 4,253,114        | Feb. 24, 1981  | Tang et al.      | 358/114            |                 |
|                     | 4,253,157        | Feb. 24, 1981  | Kirschner et al. | 364/900            |                 |
|                     | 4,262,329        | Apr. 14, 1981  | Bright et al.    | 364/200            |                 |
|                     | 4,264,924        | Apr. 28, 1981  | Freeman          | 358/86             |                 |
|                     | 4,264,925        | Apr. 28, 1981  | Freeman et al.   | 358/86             |                 |
|                     | 4,266,243        | May 5, 1981    | Shutterly        | 358/121            |                 |
|                     | 4,275,411        | June 23, 1981  | Lippel           | 358/13             |                 |
|                     | 4,283,602        | Aug. 11, 1981  | Adams et al.     | 179/1.5R           |                 |
|                     | 4,284,976        | Aug. 18, 1981  | Gable et al.     | 340/147            |                 |
|                     | 4,286,281        | Aug. 25 1981   | Suzuki           | 358/4              |                 |
|                     | 4,287,592        | Sept. 1, 1981  | Paulish et al.   | 370/88             |                 |
|                     | 4,288,809        | Sept. 8, 1981  | Yabe             | 358/12             |                 |

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\* - If pertinent

\*\*\* - Claims priority from parent application filed prior to Nov. 3, 1981

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